



GENERAL NOTES:

- ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED.
- FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL, SEE STANDARD SHEET 703.15.
- LAP ALL LONGITUDINAL BARS A MINIMUM OF 23" AT SPLICES.
- MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2" UNLESS OTHERWISE SHOWN.
- PREFORMED FIBER EXPANSION JOINT MATERIAL SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH NO. 10 GAGE COPPER WIRE OR NO. 12 GAGE SOFT DRAWN GALVANIZED STEEL WIRE.
- BEVELED HEADWALL TO BE LOCATED AT UPSTREAM END.
- A FILTER CLOTH 3 FEET IN WIDTH AND DOUBLE THICKNESS SHALL BE APPLIED TO ALL TRANSVERSE JOINTS IN THE TOP SLAB AND SIDEWALLS. THE MATERIAL SHALL BE CENTERED ON THE JOINT AND THE EDGES SEALED WITH A MASTIC OR WITH TWO SIDED TAPE. THE FILTER CLOTH SHALL BE A GEOTEXTILE MEETING SEC 1011 FOR SUBSURFACE DRAINAGE. COST OF FURNISHING AND INSTALLING THE FILTER CLOTH WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR OTHER ITEMS.
- FOR MORE DETAILS AND SECTION THROUGH BOX, SEE 703.13 SHEET 2 OF 3.

- ① UPSTREAM = 3'-5"
DOWNSTREAM = 4'-0"
- ② IF MORE THAN ONE TRANSVERSE JOINT IS REQUIRED, SEE STANDARD SHEET 703.12 FOR DETAILS.
- ③ FOR DETAILS AND REINFORCEMENT IN WINGS, SEE STANDARD SHEET 703.37.
- ④ USE THESE BARS FOR DESIGN FILLS OF MORE THAN 2'-0".
- ⑤ USE THESE BARS FOR DESIGN FILLS OF 2'-0" OR LESS.
- (**) VARIES - 12" MAXIMUM
- (***) USE TRANSVERSE JOINT WHEN BARREL IS OVER 80 FEET LONG BETWEEN HEADWALLS.
- USE ADDITIONAL TRANSVERSE JOINTS TO PROVIDE 50 FEET MAXIMUM SPACING BETWEEN JOINTS.
- DISTANCE BETWEEN INSIDE FACE OF HEADWALL AND TRANSVERSE JOINT SHALL NOT BE LESS THAN 3'-0".
- (****) J4 BAR SPACING

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
CONCRETE SINGLE BOX STRUCTURE STRAIGHT WINGS (SKEWED)			
DATE: _____	EFFECTIVE: 09-01-2006	703.13G	1/3



NOTE: CONSTRUCTION JOINT KEY OMITTED FOR CLARITY.

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED.

J1 BARS MAY BE BENT IN FIELD OR SHOP.

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2"
UNLESS OTHERWISE SHOWN.

FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL,
SEE STANDARD SHEET 703.15.

- ① FOR DETAILS OF REINFORCEMENT IN WINGS, SEE STANDARD SHEET 703.37.

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CROSS-SLOPE: SLOPE OF EACH PART OF THE ROADWAY INCLUDING ROADWAY CROWN, SHOULDER SLOPE, AND/OR SUPERELEVATION. SEE DESIGN ROADWAY CROSS SECTION FOR LANE AND SHOULDER WIDTHS AND SLOPES.